=> file caplus COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 0.00 0.15

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FILE COVERS 1907 - 15 Mar 2002 VOL 136 ISS 11 FILE LAST UPDATED: 13 Mar 2002 (20020313/ED)

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=> s elast? or stretch? 257087 ELAST? 99358 STRETCH? L1350872 ELAST? OR STRETCH? => s composit? (1) sheet? 1088475 COMPOSIT? 1139324 COMPN 445290 COMPNS 1388612 COMPN (COMPN OR COMPNS) 2058144 COMPOSIT? (COMPOSIT? OR COMPN) 288293 SHEET? 54646 COMPOSIT? (L) SHEET? => s orthogon? or perpendic? 20186 ORTHOGON? 79453 PERPENDIC? L3 99053 ORTHOGON? OR PERPENDIC?

39 L1 AND L2 AND L3

=> s 11 and 12 and 13

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=> s inelast? or non-elast?
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        524726 NON
           29 NONS
        524750 NON
                 (NON OR NONS)
        257087 ELAST?
           317 NON-ELAST?
                 (NON(W)ELAST?)
         57044 INELAST? OR NON-ELAST?
L5
=> 14 and 15
L4 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).
=> s 14 and 15
             4 L4 AND L5
=> d 1-4 bib,abs
     ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS
     2002:169087 CAPLUS
ΑN
     Elastically stretchable composite
TI
     sheet and process for making the same
     Kobayashi, Toshio; Goda, Hiroki
IN
PA
     Uni-Charm Corporation, Japan
     Eur. Pat. Appl., 11 pp.
SO
     CODEN: EPXXDW
     Patent
DT
     English
LΑ
FAN.CNT 1
                                         APPLICATION NO. DATE
     PATENT NO.
                    KIND DATE
     EP 1184163 A2 20020306 EP 2001-307469 20010903
     EP 1184163
PΙ
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
     JP 2002069817 A2 20020308
JP 2000-266084 A 20000901
                                                            20000901
                                           JP 2000-266084
PRAI JP 2000-266084
    An elastically stretchable composite
     sheet includes an elastically stretchable
     first web and an inelastically stretchable second web
     of thermoplastic synthetic resin fiber which is intermittently bonded to
     the first web in a y-direction. Component fiber of the second web has its
     cress-section cut in a direction orthogonal to the y-direction
     defined by a width w and a height h dimensioned to be at a ratio h/w less
     than 0.5. The composite sheet having such a structure
     improve its flexibility.
     ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
L6
     2001:725381 CAPLUS
AN
     Composite sheet and process for making the same
TΙ
     Tange, Satoru; Ohata, Hiroyuki
IN
PΑ
     Japan
     U.S. Pat. Appl. Publ.
SO
     CODEN: USXXCO
DT
     Patent
    English
LΑ
FAN.CNT 1
                                        APPLICATION NO. DATE
     PATENT NO. KIND DATE
                                           _____
                                                           _____
                                         US 2001-821230 20010329
PI US 2001027074 A1 20011004
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```
JP 2000-99888
    JP 2001288666
                      A2
PRAI JP 2000-99888
                      Α
                           20000331
    This invention aims to provide a composite sheet
    having a layer of inelastically stretchable continuous
     fibers improved so that a possible unevenness in fiber diameter may be
    minimized. A composite sheet comprises an
    elastically stretchable layer and an
     inelastically stretchable layer formed with
     inelastically stretchable continuous fibers bonded to at
     least one surface of the elastically stretchable layer
     intermittently in one direction. The continuous fibers are oriented
     substantially in one direction thereof so that the composite
     sheet may present a ratio S1/S2 of 3.0 or higher where S1
     represents a tensile strength in this one direction and S2 represents a
     tensile strength in the direction orthogonal to this one
     direction.
    ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS
     2001:546070 CAPLUS
AN
     135:108599
DN
     Elastically stretchable composite
ΤT
     sheets with high stretchability comprising laminates of
     a thermoplastic stretchable elastic sheet
     and a nonwoven sheet comprising fibers consisting of propylene
     polymers having inelastic stretchability and
     intermittently joined to one or two surfaces of the elastic
     Kobayashi, Toshio; Ohata, Hiroyuki
ΙN
     Japan
PA
     U.S. Pat. Appl. Publ., 9 pp.
SO
     CODEN: USXXCO
DT
     Patent
     English
LΑ
FAN.CNT 1
                                         APPLICATION NO. DATE
                    KIND DATE
     PATENT NO.
                                           _____
                                                           _____
     _____
     US 2001009715
                                         US 2001-766275 20010119
                           20010726
                      A1
                      A1
A2
PΤ
                                          JP 2000-11994
                                                           20000120
                            20010727
     JP 2001200460
     JP 2001200460
BR 2001000345
                                                           20010119
                                          BR 2001-345
                            20011009
                      Α
                                          CN 2001-112332
                                                           20010120
                           20010815
     CN 1307857
                      А
PRAI JP 2000-11994
                          20000121
                      Α
     The stretchable sheets comprise laminates of an
     elastic sheet (A) having stretchability
     essentially in one or two directions orthogonal to each other
     and showing stretch in one direction .gtoreq.80%, and a
     sheet-like fibrous assembly (B) having an inelastic
     stretchability in one of the two directions and joined to
     .gtoreq.1 surface of A sheet at bonding sections arranged
     intermittently in the two directions and comprising component fibers each
     consisting of ethylene-propylene copolymer (I) contg. 0.5-10% ethylene
     units, butene-ethylene-propylene copolymer (II) contg. 0.5-10% ethylene
     units and 0.5-15% butene units, or a mixt. comprising 100-10% two polymers
     from I and II. The composite sheets are prepd. by the
     steps comprising the steps of (a) continuously feeding together A web
     comprising thermoplastic polymers and B web exhibiting breaking extension
     .gtoreq.150% in one direction and placing A web upon B web, (b) joining A
     web and B web intermittently in one direction and in the direction
     orthogonal to the first direction and essentially joining the webs
     in one direction, (c) stretching the webs at a stretch
     within the elasticity limit of A web and smaller than the
     breaking extension of B web, and (e) keeping the composite to
     cause contraction of the composite. The composite
     sheets are useful for disposable diapers, sanitary napkins, and
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20011019

20000331

disposable medical gowns.

2002:169087 CAPLUS

AN

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ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS
L6
AN
     2001:50178 CAPLUS
    134:102013
DN
ΤI
    Elastically stretchable composite
     sheet
     Kobayashi, Toshio; Tange, Satoru; Yamaki, Koichi
IN
     Uni-Charm Corp., Japan
PΑ
SO
     Eur. Pat. Appl., 13 pp.
     CODEN: EPXXDW
DT
     Patent
   English
T.A
FAN.CNT 1
     PATENT NO.
                     KIND DATE
                                         APPLICATION NO. DATE
     EP 1069223 A1 20010117 EP 2000-305922 20000712
ΡI
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
                 A 20010214
                                          CN 2000-124261
                                                            20000712
     CN 1283422
     BR 2000009150
                      Α
                           20011120
                                          BR 2000-9150
                                                            20000712
     JP 1999-198159 A
JP 2000-168303 A
PRAI JP 1999-198159
                            19990712
                            20000605
     JP 2000-2000168303A
                          20000605
     The sheet comprises an elastic sheet (polyester-polyether block
AB
     copolymer ) having a stretchability in 2 directions
     orthogonal to each other and a sheet-like fibrous assembly
     (polypropylene or polyester fibrous sheet) having an extensibility in the
     2 directions bonded to .gtoreq.1 surface of the elastic sheet,
     wherein a fibrous assembly has an inelastic extensibility, the
     elastic sheet and the fibrous assembly are bonded together at bond
     regions arranged intermittently in the two directions and component fibers
     constituting the fibrous assembly are long fibers continuously extending
     and describing curves between each pair of adjacent bond regions in which
     the long fiber is bonded to the elastic sheet.
RE.CNT 1
              THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
             ALL CITATIONS AVAILABLE IN THE RE FORMAT
≈> d his
     (FILE 'HOME' ENTERED AT 08:25:01 ON 15 MAR 2002)
     FILE 'STNGUIDE' ENTERED AT 08:25:15 ON 15 MAR 2002
     FILE 'CAPLUS' ENTERED AT 08:30:45 ON 15 MAR 2002
         350872 S ELAST? OR STRETCH?
L1
          54646 S COMPOSIT? (L) SHEET?
L2
L3
         99053 S ORTHOGON? OR PERPENDIC?
L4
             39 S L1 AND L2 AND L3
         57044 S INELAST? OR NON-ELAST?
L5
             4 S L4 AND L5
L6
=> s orthogon?
        20186 ORTHOGON?
L7
\Rightarrow s 11 and 12 and 17
            8 L1 AND L2 AND L7
\approx d 1-8 bib, abs
    ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS
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```
Elastically stretchable composite
     sheet and process for making the same
IN
     Kobayashi, Toshio; Goda, Hiroki
     Uni-Charm Corporation, Japan
     Eur. Pat. Appl., 11 pp.
SO
     CODEN: EPXXDW
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                 KIND DATE
                                       APPLICATION NO.
                          -----
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                                          _____
                                                          _____
    EP 1184163 A2 20020306 EP 2001-307469 20010903
РΤ
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO
                    A2 20020308
A 20000901
                                          JP 2000-266084
                                                          20000901
     JP 2002069817
PRAI JP 2000-266084
    An elastically stretchable composite
     sheet includes an elastically stretchable
     first web and an inelastically stretchable second web of
     thermoplastic synthetic resin fiber which is intermittently bonded to the
     first web in a y-direction. Component fiber of the second web has its
     cress-section cut in a direction orthogonal to the y-direction
     defined by a width w and a height h dimensioned to be at a ratio h/w less
     than 0.5. The composite sheet having such a structure
     improve its flexibility.
T.8
    ANSWER 2 OF 8 CAPLUS COPYRIGHT 2002 ACS
    2001:725381 CAPLUS
AN
    Composite sheet and process for making the same
TI
ΙN
    Tange, Satoru; Ohata, Hiroyuki
PΑ
     Japan
    U.S. Pat. Appl. Publ.
SO
    CODEN: USXXCO
DТ
    Patent
LA
    English
FAN.CNT 1
    PATENT NO.
                   KIND DATE
                                        APPLICATION NO. DATE
     _____
                                          _____
    US 2001027074 A1 20011004
                                        US 2001-821230
                                                          20010329
JP 2001288666 A2 20011019
PRAI JP 2000-99888 A 20000331
                                         JP 2000-99888 20000331
                           20011019
    This invention aims to provide a composite sheet
    having a layer of inelastically stretchable continuous fibers
    improved so that a possible unevenness in fiber diameter may be minimized.
    A composite sheet comprises an elastically
    stretchable layer and an inelastically stretchable layer
     formed with inelastically stretchable continuous fibers bonded
     to at least one surface of the elastically stretchable
    layer intermittently in one direction. The continuous fibers are oriented
    substantially in one direction thereof so that the composite
    sheet may present a ratio S1/S2 of 3.0 or higher where S1
    represents a tensile strength in this one direction and S2 represents a
    tensile strength in the direction orthogonal to this one
    ANSWER 3 OF 8 CAPLUS COPYRIGHT 2002 ACS
L8
    2001:546070 CAPLUS
ΑN
DN
    135:108599
TI
    Elastically stretchable composite
    sheets with high stretchability comprising laminates of
    a thermoplastic stretchable elastic sheet
    and a nonwoven sheet comprising fibers consisting of propylene
    polymers having inelastic stretchability and intermittently
```

```
IN
     Kobayashi, Toshio; Ohata, Hiroyuki
PA
     Japan
SO
     U.S. Pat. Appl. Publ., 9 pp.
     CODEN: USXXCO
DT
     Patent
LΑ
     English
FAN.CNT 1
                                     APPLICATION NO. DATE
     PATENT NO.
                     KIND DATE
     _____
                                         _____
                                      US 2001-766275
JP 2000-11994
    US 2001009715 A1 20010726
JP 2001200460 A2 20010727
                                                         20010119
PΙ
                                                         20000120
     BR 2001000345
                    A 20011009
                                        BR 2001-345
                                                         20010119
     CN 1307857
                     Α
                         20010815
                                        CN 2001-112332 20010120
PRAI JP 2000-11994 A 20000121
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     elastic sheet (A) having stretchability
     essentially in one or two directions orthogonal to each other
     and showing stretch in one direction .gtoreq.80%, and a
     sheet-like fibrous assembly (B) having an inelastic
     stretchability in one of the two directions and joined to
     .gtoreq.1 surface of A sheet at bonding sections arranged
     intermittently in the two directions and comprising component fibers each
     consisting of ethylene-propylene copolymer (I) contg. 0.5-10\% ethylene
     units, butene-ethylene-propylene copolymer (II) contg. 0.5-10% ethylene
     units and 0.5-15% butene units, or a mixt. comprising 100-10% two polymers
     from I and II. The composite sheets are prepd. by the
     steps comprising the steps of (a) continuously feeding together A web
     comprising thermoplastic polymers and B web exhibiting breaking extension
     .gtoreq.150% in one direction and placing A web upon B web, (b) joining A
     web and B web intermittently in one direction and in the direction
     orthogonal to the first direction and essentially joining the webs
     in one direction, (c) stretching the webs at a stretch
     within the elasticity limit of A web and smaller than the
     breaking extension of B web, and (e) keeping the composite to
     cause contraction of the composite. The composite
     sheets are useful for disposable diapers, sanitary napkins, and
     disposable medical gowns.
    ANSWER 4 OF 8 CAPLUS COPYRIGHT 2002 ACS
1.8
     2001:50178 CAPLUS
AN
DN
    134:102013
    Elastically stretchable composite
     Kobayashi, Toshio; Tange, Satoru; Yamaki, Koichi
ΙN
    Uni-Charm Corp., Japan
PA
SO
    Eur. Pat. Appl., 13 pp.
    CODEN: EPXXDW
DT
    Patent
    English
LA
FAN.CNT 1
    PATENT NO. KIND DATE
                                       APPLICATION NO. DATE
     _____
                                        _____
    EP 1069223 Al 20010117
PΤ
                                        EP 2000-305922 20000712
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO
                 A
                          20010214
                                         CN 2000-124261
                                                         20000712
     CN 1283422
     BR 2000009150
                     Α
                           20011120
                                         BR 2000-9150
                                                         20000712
PRAI JP 1999-198159
                     Α
                    A
                           19990712
    JP 2000-168303
                          20000605
    JP 2000-2000168303A
                         20000605
    The sheet comprises an elastic sheet (polyester-polyether block
AB
    copolymer ) having a stretchability in 2 directions
```

joined to one or two surfaces of the elastic sheet

orthogonal to each other and a sheet-like fibrous assembly (polypropylene or polyester fibrous sheet) having an extensibility in the 2 directions bonded to .gtoreg.1 surface of the elastic sheet, wherein a fibrous assembly has an inelastic extensibility, the elastic sheet and the fibrous assembly are bonded together at bond regions arranged intermittently in the two directions and component fibers constituting the fibrous assembly are long fibers continuously extending and describing curves between each pair of adjacent bond regions in which the long fiber is bonded to the elastic sheet.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS
L8
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1999:755337 CAPLUS AN

DN 132:294686

Anisotropy of torsional rigidity of sheet polymer TΙ composite materials

ΑU Startsev, O. V.; Kovalenko, A. A.; Nasonov, A. D.

Altai State University, Barnaul, Russia CS

Mech. Compos. Mater. (1999), 35(3), 201-212 SO CODEN: MCMAD7; ISSN: 0191-5665

PBConsultants Bureau

DTJournal

English LΑ

Wide application of polymer composite materials (PCM) in modern technol. AΒ calls for detailed evaluation of their stress-strain properties in a broad temp. range. To obtain such information, we use the dynamic mech. anal. and with the help of a reverse torsion pendulum measure the dynamic torsional rigidity of PCM bars of rectangular cross section in the temp. range up to 600 K. It is found that the temp. dependences of the dynamic rigidity of the calcd. values of dynamic shear moduli are governed by the percentage and properties of the binder and fibers, the layout of fibers, the phase interaction along interfaces, etc. The principles of dynamic mech. spectrometry are used to substantiate and analyze the parameters of anisotropy by which the behavior of a composite can be described in the temp. range including the transition of the binder from the glassy into a highly elastic state. For this purpose, the values of dynamic rigidity are measured under low-amplitude vibrations of the PCM specimens with a fiber orientation angle from 0 to 90.degree.. It is shown that for unidirectional composites the dependence between the dynamic rigidity and the fiber orientation angle is of extreme character. The value and position of the peak depend on the type of the binder and fibers and change with temp. It is found that the anisotropy degree of PCM is dictated by the mol. mobility and significantly changes in the temp. range of transition of the binder and reinforcement from the glassy into a highly elastic state (in the case of SVM fibers). The possibility of evaluating the anisotropy of composites with other reinforcement schemes, in particular, of orthogonally reinforced PCMs, is shown.

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD RE.CNT 14 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L8
    ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
    1999:457467 CAPLUS
```

131:188585

ΤI Elastic and mechanical properties of carbon nanotubes

Goze, C.; Vaccarini, L.; Henrard, L.; Bernier, P.; Hernandez, E.; Rubio, ΑIJ

CS GDPC-CNRS, Univ. Montpellier 2, Fr.

SO Synth. Met. (1999), 103(1-3), 2500-2501 CODEN: SYMEDZ; ISSN: 0379-6779

PΒ Elsevier Science S.A.

DTJournal

- LA English
- AB We present a comparative study of energetic, structural and elastic properties of carbon and composite single-wall nanotubes using a non-orthogonal tight binding formalism. We investigate Young's Modulus and Poisson ratio of (n,0) and (n,n) nanotubes, with n=(5-20). Our calcns. predict that carbon nanotubes have a higher Young's Modulus (1TPa) than any of the studied composite nanotubes and of the same order as that found for graphene sheets without defect. We obtain good agreements with the available exptl. results.
- RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L8 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
- AN 1999:161361 CAPLUS
- DN 130:203131
- TI Elastic properties of single-wall nanotubes
- AU Hernandez, E.; Goze, C.; Bernier, P.; Rubio, A.
- CS Departamento Fisica Teorica, Universidad Valladolid, Valladolid, E-47011, Spain
- SO Appl. Phys. A: Mater. Sci. Process. (1999), A68(3), 287-292 CODEN: APAMFC; ISSN: 0947-8396
- PB Springer-Verlag
- DT Journal
- LA English
- AB We report results of theor. studies on the **elastic** properties of single-wall nanotubes of the following **compns**:: C, BN, BC3, BC2N, and C3N4. These studies were carried out using a total-energy, non-orthogonal, tight-binding parametrization which is shown to provide results in good agreement both with calcns. using higher levels of theory and the available exptl. data. Our results predict that of all types of nanotubes considered, C nanotubes have the highest Young's modulus. We have considered tubes of different diams., ranging from 0.5-2 nm, and find that in the limit of large diams. the mech. properties of nanotubes approach those of the corresponding flat graphene-like sheets.
- RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L8 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
- AN 1996:141253 CAPLUS
- DN 124:208713
- TI Residual **elastic** strain measurement in heat-treated SiC whisker/A2014 metal-matrix composites (MMC) by neutron diffraction
- AU Ohnuki, Takahisa; Tomota, Yo; Ono, Masayoshi
- CS Dep. Materials Science, Faculty Eng., Ibaraki University, Hitachi, Japan
- SO Nippon Kinzoku Gakkaishi (1996), 60(1), 56-64 CODEN: NIKGAV; ISSN: 0021-4876
- DT Journal
- LA Japanese
- AB The residual elastic strains in 22 vol. %SiC whisker/A2014 metal matrix composites made by squeeze-casting were examd. using a neutron crystal diffractometer with a one-dimensional position sensitive detector (PSD) and a neutron time-of-flight diffractometer with two-point detectors (TOF). The ingot of the sample was hot-extruded, then hot-swaged and finally hot-rolled to sheets of 2 mm in thickness. The hot-rolling was performed either parallel (specimen P) or vertical (specimen V) to the direction of extrusion. The whiskers are aligned with a little scattering against the extrusion direction in the specimen P, while their orientation distribution is nearly two-dimensionally random in specimen V. The residual stresses were introduced by rapid quenching from 448 K (T6 heat treatment) or 773 K (soln. treatment). SiC whisker and A2014 alloy were used as the ref.

materials. It is found that the residual **elastic** strains in the samples depend upon the orientation distribution of the whiskers. The ratio of residual **elastic** strains in the T6 treated specimen to those in the soln. treated one is about 3.0, which is consistent with the ratio of their temp. gaps upon quenching. The results by PSD and TOF are found almost identical. The residual **elastic** strains have been calcd. on the basis of Eshelby's equiv. inclusion and Mori-Tanaka's mean field theories. In the calcn., the 3-dimensional orientation distributions of whiskers obtained from the SEM observations on the two mutually **orthogonal** planes of the specimens were taken into consideration. The calcd. results were in good agreement with the measurements.

=> d his

(FILE 'HOME' ENTERED AT 08:25:01 ON 15 MAR 2002)

FILE 'STNGUIDE' ENTERED AT 08:25:15 ON 15 MAR 2002

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FILE 'CAPLUS' ENTERED AT 08:30:45 ON 15 MAR 2002
L1
         350872 S ELAST? OR STRETCH?
          54646 S COMPOSIT? (L) SHEET?
L2
L3
          99053 S ORTHOGON? OR PERPENDIC?
L4
             39 S L1 AND L2 AND L3
L5
          57044 S INELAST? OR NON-ELAST?
L6
              4 S L4 AND L5
L7
          20186 S ORTHOGON?
              8 S L1 AND L2 AND L7
r_8
=> s 11 (1) recov?
        513048 RECOV?
          6314 L1 (L) RECOV?
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